

IN THE CLAIMS:

Claims 1-9 (Cancel)

10. (Represented - formerly claims 1, 2 and 3)      A roll stand for hot-rolling or cold-rolling rolled strips of different materials, the roll stand comprising work rolls, back-up rolls and, optionally, intermediate rolls arranged in pairs, wherein the rolls of at least one pair of rolls are axially displaceable under load toward both sides and have a contour suitable for compensating rolling defects, wherein

a)    each displaceable roll has at least one hydrodynamic oil film bearing with a bearing shell, wherein a hydraulic unit for effecting the axial displacement is integrated into the hydrodynamic oil film bearing such that the hydraulic unit is adapted to the shape of the hydrodynamic oil film bearing and a diameter of the hydraulic unit is greater than a diameter of the bearing shell of the hydrodynamic oil film bearing;

b)    the hydraulic unit has an annular cylinder connected to the roll stand, wherein an annular piston with an integrated ring connected to the roll through conical roller bearings is sealingly guided in the annular cylinder; and

c)    the annular piston has on a circumference thereof a ring which is axially displaceable with the annular piston in a groove

of the annular cylinder, wherein the groove forms together with the annular piston an annular space which is divided by the ring into annular space portions, wherein the annular space portions are in connection with a hydraulic control system of the roll stand through separate hydraulic connections, so that pressure can be applied to both sides of the ring of the annular piston.

11. (Represented - formerly claim 5) The roll stand according to claim 10, wherein a position indicator is provided for each displaceable roll.

12. (Represented - formerly claim 6) The roll stand according to claim 11, wherein an axial position of the displaceable rolls is controllable by the hydraulic unit through a control circuit of the roll stand by using signals of the position indicator.

13. (Represented - formerly claim 7) The roll stand according to claim 10, wherein the hydrodynamic oil film bearing with the hydraulic unit is configured to be usable as a retrofitting part.

14. (Represented - formerly claim 8) The roll stand according to claim 10, wherein the hydrodynamic oil film bearing with the hydraulic unit is configured to be mountable in front stands and/or rear stands of hot rolling mills and/or cold rolling mills.